User's Manual

Prudent Way 80 Watt DC-AC Power Inverter

PWI-IV80-SB

Table of Contents

1. **Safety & Warning …….2**
2. **Contents……..…….3**
3. **Using your Prudent Way 80 Watt Power Inverter…….....3**
4. **Simple Troubleshooting…….……...4**
5. **Specifications……..5**
6. **1-Year Limited Warranty…….5**

Thank you for choosing Prudent Way 80 Watt DC-AC Power Inverter. Please take time to read the following manual before installing the Power Inverter. Please note that failure to follow the proper procedures may result in personal injury or damage to the Power Inverter.

We sincerely wish you find this quality Power Inverter provides you with many years of good service.

1. Safety and Warning

Please read the following information carefully before using the Power Inverter.

- **Warning – Shock Hazard**
  - DO NOT insert foreign objects into the Power Inverter AC receptacle.
  - DO NOT expose the Power Inverter to water, rain, snow or spray. Keep the Power Inverter dry at all times.
  - DO NOT connect the Power Inverter to power utility AC distribution wiring or extension cords.

- **Warning – Heated Surface**
  - DO keep all body parts and/or materials away from the Power Inverter while in operation. The Power Inverter may become uncomfortably hot during operating. If the Power Inverter overheats, it will automatically shutdown.
  - DO provide adequate ventilation to the Power Inverter. Ensure the Power Inverter is never covered and always allow for proper ventilation.
  - DO avoid placing the Power Inverter near the vehicle's heat vent or in direct sunlight. Proper cooling is essential when operating the Power Inverter.

- **Warning – Overload Situation**

  - DO make sure the device you plug into the Power Inverter is less or equal to 80 watt. If the device plugged into the Power Inverter is more than 80 watt, the Power Inverter will automatically shutdown to avoid an overload of power.

- **Other Safety Precautions**
  - DO NOT open the case of the Power Inverter. The high voltage inside the case is the same type of power as your electrical outlets at home. Opening case will automatically void the warranty.
  - DO NOT expose this Power Inverter to flammable fumes or gases such as a gasoline powered vehicle, or near any propane tanks.
  - DO NOT use this Power Inverter in an enclosure containing automotive-type, lead-acid batteries to avoid hydrogen gas explosion, which can catch fire by sparks from electrical connections.

- DO NOT connect the Power Inverter directly to another AC power source. Damage may result and such damage will void the warranty.
- Keep this Power Inverter away from children. This Power Inverter produces power just like the wall outlets at home and should be treated seriously.
- Wrongfully plugging the AC power outlet LINE/NEUTRAL will void the warranty.
- Use common sense to store this Power Inverter. Do not place this Inverter near any batteries, gasoline, explosive vapors or other flammable and dangerous materials.
- Please disconnect all power sources should there be anything wrong with the Power Inverter operation.

2. Contents

	PWI-IV80-SB
DC-AC Power Inverter	**80-watt**
User manual	✓

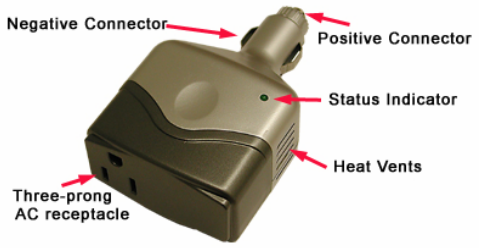
3. Using your Prudent Way 80 Watt Power Inverter

Step 1. Start your vehicle engine. (**Picture 1** Please do not plug this Power Inverter into your vehicle's cigarette socket before starting engine)

Step 2. Plug the Power Inverter into your vehicle's cigarette lighter socket. The Power Inverter's green LED indicator should light up. This signifies the Power Inverter is operating properly and ready for use. **(Picture 2)**

Step 3. Plug the AC device into the three-prong AC receptacle and turn it on. Make sure it uses 80 watts or less of AC power. **(Picture 3)**

Step 4. Do not allow an AC device to be plugged into the Power Inverter when starting the vehicle. Always remove the Power Inverter from the cigarette lighter socket when it is not in use.



Picture 1

Picture 2

Picture 3

Caution! The output of this Power Inverter is non-sinusoidal. Therefore, do not use this Power Inverter with small battery-operated products such as rechargeable flashlights, some rechargeable shavers, and night-lights that are plugged directly into an AC receptacle to recharge. Do not use this Inverter with some chargers for nickel-cadmium battery used in powered-hand tools. These chargers display warning labels stating that dangerous voltages are present at the charger's battery terminals.

Caution! This Power Inverter is designed for use with devices with a power rating of less than 80 watts and starting surge power of less than 160 watts. The continuous power rating is 75 watts. Please confirm the wattage requirement for your device before using. Failure to follow this instruction may result in damage to the Power Inverter or the electronic devices.

4. Simple Troubleshooting

Problem	Possible cause and solution
Green LED light not on	Vehicle cigarette lighter fuse maybe blown. Check the vehicle's fuse. If damaged, replace it with a new one.
	Make sure the Power Invert is securely plugged into the vehicle's cigarette lighter socket. Be sure the socket is clean.
	Power Inverter's fuse may be blown. Check and replace it with a new one.
	Turn ignition switch to accessory position.

5. Specifications

Features	
AC output (max.)	80W
AC output power (continuous)	75W
AC output surge	160W
AC output waveform	Modified sine wave
Battery drain with no AC load	<0.2A
Dimensions	4.53"x 2.6"x1.46"
Net Weight	0.33 Lbs
Output	
AC output voltage	115V
Frequency	60Hz
AC output plug	Three-prong AC outlet
Input	
DC input voltage	10 to 15V
Efficiency	Up to 90%
Cigarette plug fuse	10 A
Protections	
Low battery protection	DC 9V ± 0.5V
High battery protection	>DC 15V
Over temperature protection	Yes
Overload protection	Yes
Input short circuit protection	Yes
Output short circuit protection	Yes
Soft start	Yes
Environmental	
Operating temperature	32 to 104°F
RoHS compliant	Yes

6. 1-Year Limited Warranty

Prudent Way Inc (Prudent Way) warrants this product against defects in material and workmanship under normal use and service for one year from the original purchase date. Prudent Way, at its option, will repair or replace the defective unit covered by this warranty. Please retain the original sales receipt as the proof of the purchase required for obtaining warranty service. This warranty is in effect when the product is handled and used as stated in the user manuals. This warranty does not cover any damage due to accident, misuse, abuse, or negligence.

This limited warranty is the sole and exclusive warranty provided by Prudent Way in connection with your Prudent Way product. To the extent permitted by law, PRUDENT WAY DISCLAIMS ALL OTHER IMPLIED OR EXPRESS WARRANTIES, INCLUDING ALL WARRANTIES OF MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE.

Prudent Way makes no warranty as to the accuracy, sufficiency or suitability of any technical or other information provided in the user manual or other documentation provided with the product. Prudent Way assumes no responsibility or liability for losses, damages, costs or expenses, whether special, direct, indirect, consequential or incidental, which might arise out of or related to the use of such information. The use of any such information will be entirely at the user's risk.

Except to the extend of repairing or replacing the product as expressly stated in the limited warranty, Prudent Way is not liable for any special, direct, indirect, incidental or consequential damages, special, exemplary, or otherwise, including lost revenues, lost profits, loss of use, loss or recovery of data, rental of replacement equipment, downtime, damage to property, and third-party claims, arising out of any theory of recovery, including statutory, contract or tort. Notwithstanding any limited or implied warranty, , in no event will Prudent Way's entire liability exceeds the purchase price of this product. Some states and provinces do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This limited warranty gives you specific legal rights, and you may also have other rights which vary from state to state and province to province.

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